

## ABSTRACT

The bleaching compositions of discolored teeth comprise titanium dioxide initiating photocatalyst action with light irradiation, chemical compounds generating hydrogen peroxide in an aqueous solution and thickening agents. Further the bleaching methods of discolored teeth comprising applying the bleaching composition onto the surface area of the teeth and then initiating photocatalyst action by irradiating the applied surfaces area with light. Therefore, the present invention shows remarkable bleaching results due to easy application of the compositions onto discolored teeth and keeping the original activity of the photocatalyst without its deterioration.